 <b>Printable View (7808 KB)</b>	
<b>TSB 11-10-21</b>	<b>• IDLE RPM FLUCTUATION WITH OR WITHOUT DTCS - P0505, P0506 AND/OR P061B</b>
<b>Publication Date: October 19, 2011</b>	

**FORD:** 2005-2007 Five Hundred, Freestyle

**MERCURY:** 2005-2007 Montego

This article supersedes TSB **11-8-5** to update the Service Procedure.

### **ISSUE:**

Some 2005-2007 Ford Freestyle, Five Hundred and Mercury Montego vehicles equipped with a 3.0L engine may exhibit diagnostic trouble codes (DTCs) P0505, P0506, P061B and/or engine idle RPM fluctuation. The idle RPM fluctuation may be intermittent and DTCs P0505, P0506 and/or P061B may or may not be present.

### **ACTION:**

Follow the Service Procedure steps to correct the condition.

### **SERVICE PROCEDURE**

1. Reprogram the powertrain control module (PCM) to the latest calibration using IDS release 75.03A and higher. This new calibration is not included in the VCM 2011.9 DVD. Calibration files may also be obtained at [www.motorcraft.com](http://www.motorcraft.com).
2. Turn the key off to re-initialize the PCM. This will allow the throttle body compensation strategy to learn.
3. With the vehicle in park or neutral and A/C off, start the vehicle and allow the engine to reach normal operating temperature which is greater than 77 °C (170 °F) coolant temperature. Run an additional 5 minutes to allow sufficient learning time.
4. While the engine is running, using IDS datalogger or equivalent, check the PID value of ETC\_TRIM.
5. If ETC\_TRIM value is 3.0 degrees or greater and/or DTC P115E is present, proceed to Step 7.
6. If ETC\_TRIM value is less than 3.0 degrees and DTC P115E is not present but drivability concerns persist, the electronic throttle body (ETB) is not the likely the cause of the concern and replacement is not necessary. Refer to Powertrain Control/Emissions Diagnosis (PC/ED) manual for normal diagnostics.
7. Remove the throttle body. Refer to Workshop Manual (WSM), Section 303-04.
8. Using Motorcraft® Choke and Linkage Cleaner or equivalent, spray the throttle body plate and bore. Using a small, soft, solvent resistant brush, clean the edges of the throttle plate and the mating surface of the throttle bore to remove all engine deposit build up. Reapply choke and linkage cleaner. (Figures 1-2)



Figure 1 - Article 11-10-21

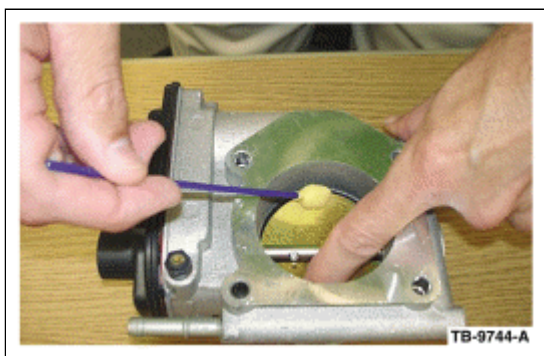


Figure 2 - Article 11-10-21

**NOTE:** DO NOT SPRAY CLEANER DIRECTLY INTO THROTTLE PLATE PIVOT SHAFT.

9. Install the throttle body. Refer to WSM, Section 303-04.

PART NUMBER	PART NAME
PM-14	Motorcraft® Choke and Linkage Cleaner

### WARRANTY STATUS:

Eligible Under Provisions Of New Vehicle Limited Warranty Coverage And Emissions Warranty Coverage

IMPORTANT: Warranty coverage limits/policies are not altered by a TSB. Warranty coverage limits are determined by the identified causal part.

OPERATION	DESCRIPTION	TIME
111021A	2005-2007 Five Hundred, Freestyle, Montego: Check DTCs, Reprogram The PCM, Warm The Engine, Monitor PIDS, And Clean The Throttle Body Includes Time To Remove And Install The Throttle Body (Do Not Use With Any Other Labor Operations)	1.1 Hrs.
111021B	2005-2007 Five Hundred, Freestyle, Montego: Check DTCs, Reprogram The PCM, Warm The Engine, And Monitor PIDS	0.6 Hr.

### DEALER CODING

BASIC PART NO.	CONDITION CODE
9F991	49

**NOTE:** The information in Technical Service Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers". Do not assume that a condition described affects your car or truck. Contact a Ford or Lincoln dealership to determine whether the Bulletin applies to your vehicle. Warranty Policy and Extended Service Plan documentation determine Warranty and/or Extended Service Plan coverage unless stated otherwise in the TSB article. The information in this Technical Service Bulletin (TSB) was current at the time of printing. Ford Motor Company reserves the right to supercede this information with updates. The most recent information is available through Ford Motor Company's on-line technical resources.

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